

# Bracketing for Exposure and Depth of Field

*Objective - create a contact sheet that demonstrates the differences of Aperture Opening and Shutter Speed on a scene that has a deep depth of field.*

*Reflect on the differences and prepare to answer questions about Depth of Field on a variety of photographs and settings.*



Digital Photography School

**What is Bracketing?** <http://digital-photography-school.com/bracketing-what-is-it-and-what-to-do-with-the-images/>

In short, bracketing is taking the same photo more than once using different settings for different exposures.... One is to change the aperture, another is the shutter speed and the third is ISO.

**Wikipedia** <http://en.wikipedia.org/wiki/Bracketing>

**Depth-of-field bracketing**[\[edit\]](#)

DOF ([Depth-of-field](#)) bracketing comprises taking a series of pictures in stepped apertures ([f-stops](#)), while maintaining the exposure, either by counter-shifting the [shutter speed](#) or, with digital cameras, adapting the [ISO speed](#) accordingly. In the first case, it will also change the amount of motion blur in the picture. In the second case, it may visibly affect image noise and contrast.

**Create a scene** using gummy bears, a Bible, ruler or laptop keyboard. Your scene must have a subject that is around **6 inches in depth** and a **distinct background** (your choice).

You will need to take one set of pictures by *bracketing* the **Aperture** (f-stop) and a second set by *bracketing* the **Shutter Speed**. You will find sample contact sheets at the front of the class.

You must use **at least 4 settings** from the usable range on your camera. Set your ISO to a constant 200. Find the lowest usable setting and the highest and choose 2 more that are evenly spaced in the mid-range. Shoot from lowest to highest. (Ex - f4, f8, f12, f16 and 1/8, 1/15, 1/50, 1/60, 1/100). You will have a larger range available if you have more light. **XLC for each image over 4 settings.**

**Print a contact sheet with details** for title, ISO, Shutter Speed, and Aperture. You will print 2 contact sheets, one for **Aperture** brackets and the other for **Shutter Speed** brackets.

**Compare the sheets. What changes do you see on each. What is the relationship between Aperture and Shutter Speed?**